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8.5

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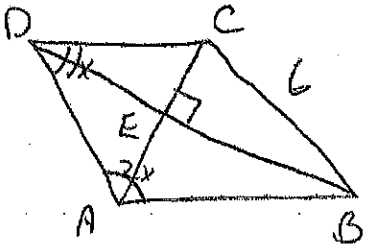
12. $x + 2x = 180$

$3x = 180$

$x = 60$

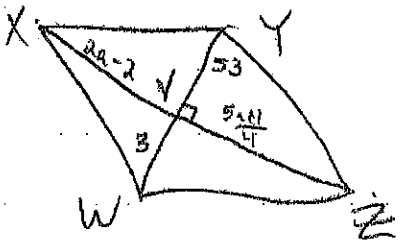
$m\angle ACD = 60 \rightarrow \frac{1}{2}120$



13. $m\angle DAB = 120$

14. $DA = 6$

15. $m\angle ADB = 30$ $\frac{1}{2}60$



$\frac{2a-2}{1} = \frac{5a+1}{4}$

$8a - 8 = 5a + 1$

$3a = 9$

$a = 3$

16. $m\angle YZV = 37$

17. $m\angle XYW = 53$

$90 - 53$

18. $XZ = 8$ $2(3) - 2 = 4 \times 2$

19. $XW = 5$ $3^2 + 4^2 = XW^2$

20. E(1,10) F(-4,0) G(7,2) H(12,12)

$EG = \sqrt{(7-1)^2 + (2-10)^2} = \sqrt{100}$

$6^2 = 36$ $(-8)^2 = 64$ Not Rect.

$FH = \sqrt{(12-(-4))^2 + (12-0)^2} = \sqrt{400}$

16^2 12^2

$EG\ m = \frac{-8}{6} = \frac{-4}{3}$ $FH\ m = \frac{12}{16} = \frac{3}{4}$

$\perp$ opp Recip (Rhombus)

26. S

27. A

28. A

29. S

30. S

31. A